

Applicant : Robert J. Etches et al.  
Appl. No. : 10/508,808  
Examiner : Michael C. Wilson  
Docket No. : 700603.7/1

### Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1 - 9. (Canceled)

10. (Currently Amended) A chimeric chicken whose genome is comprised of a transgene stably integrated into the genome of the chicken wherein the transgene is comprised of human variable, and joining regions and wherein a population of B lymphocytes produced by the chicken are comprised of an assembly of human immunoglobulin locus genes that undergo functional immunoglobulin gene conversion to encode a human immunoglobulin heavy or light chain immunoglobulin molecule.

11. (Currently Amended) A chimeric chicken of claim 10, wherein the transgene is comprised of human immunoglobulin heavy chain genes comprising at least one human heavy chain V gene, at least one human heavy chain D genes, and at least one human heavy chain J gene.

12. (Previously Presented) A chimeric chicken of claim 11 wherein the transgene comprises a plurality of human heavy chain V genes.

13. (Previously Presented) A chimeric chicken of claim 11 wherein the transgene comprises a plurality of human heavy chain D genes.

14. (Previously Presented) A chimeric chicken of claim 11 wherein the transgene comprises a plurality of human heavy chain V genes.

15. (Previously Presented) A chimeric chicken of claim 11 wherein the transgene comprises a plurality of human heavy chain pseudo V genes.

Applicant : Robert J. Etches et al.  
Appl. No. : 10/508,808  
Examiner : Michael C. Wilson  
Docket No. : 700603.7/1

16. (Previously Presented) A chimeric chicken of claim 10 wherein the functional immunoglobulin gene conversion is class switching that yields isotype G immunoglobulin molecules.

17. (Previously Presented) A chimeric chicken of claim 10 wherein the human heavy or light chain immunoglobulin molecule is deposited in the yolk of an egg produced by the transgenic chicken.

18. (Previously Presented) A chimeric transgenic chicken of claim 11 wherein the transgene comprises a plurality of human light chain pseudo V genes.

19-20. (Canceled)